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This schematic diagram illustrates a medical device, likely for dialysis or fluid management. The central component is a vertical column (32) containing four reservoirs (32). The column is connected to a central chamber (30) at the top and a base (40) at the bottom. The top chamber (30) has several ports: 20 (inlet), 22 (outlet), 24 (inlet), 26 (outlet), 28 (inlet), and 14 (outlet). A horizontal line (12) connects the top chamber to a control unit (10) on the right. The base (40) has a port (42) connected to a pump (56) on the left. A vertical line (58) runs along the left side of the column. The right side of the column has a vertical line (60) with a valve (52) and a port (50). The base (40) also has a port (46) connected to a pump (48) on the right. A horizontal line (44) runs along the bottom of the column, with a valve (47) and a port (48) on the right side.

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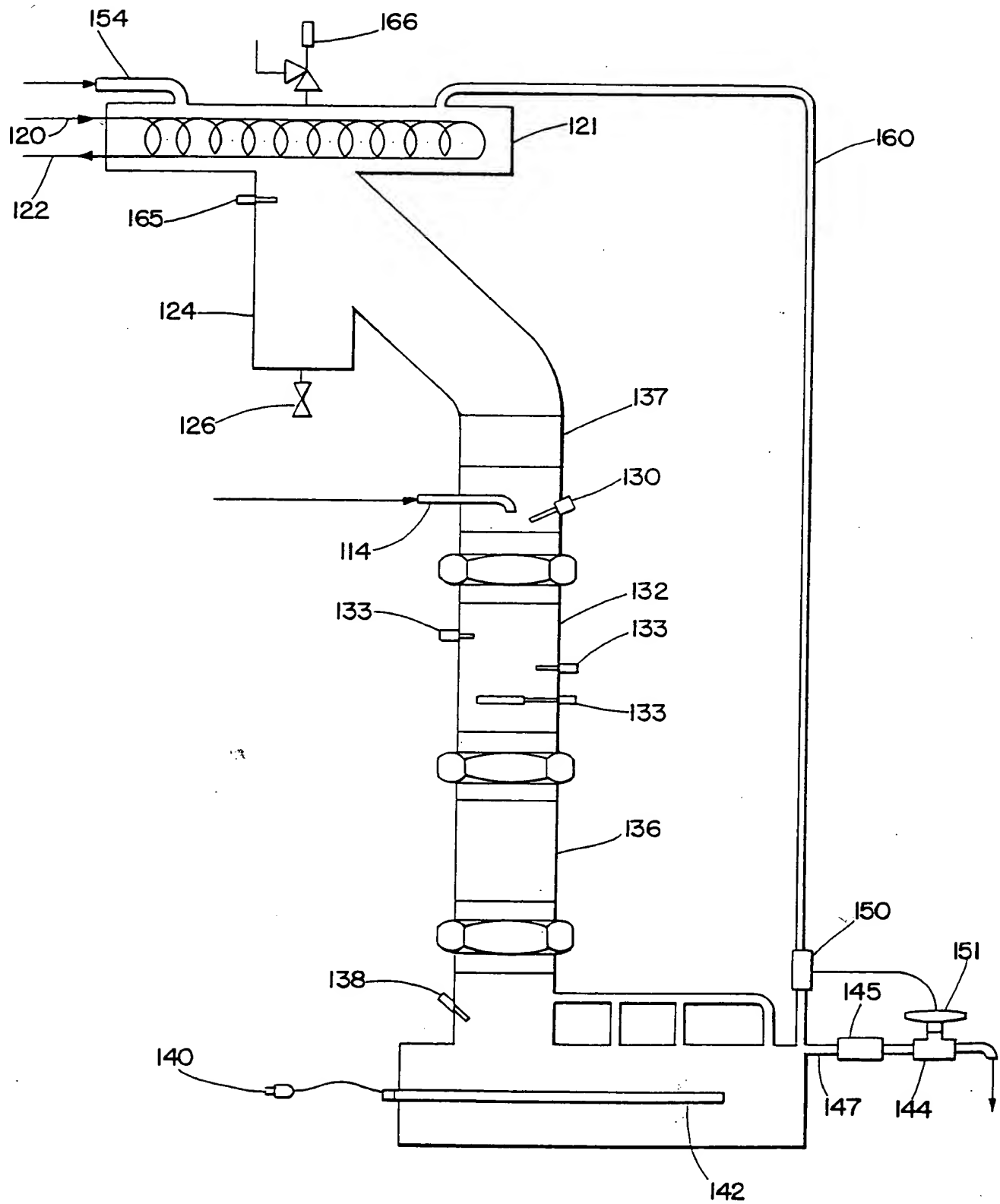


Fig. 2

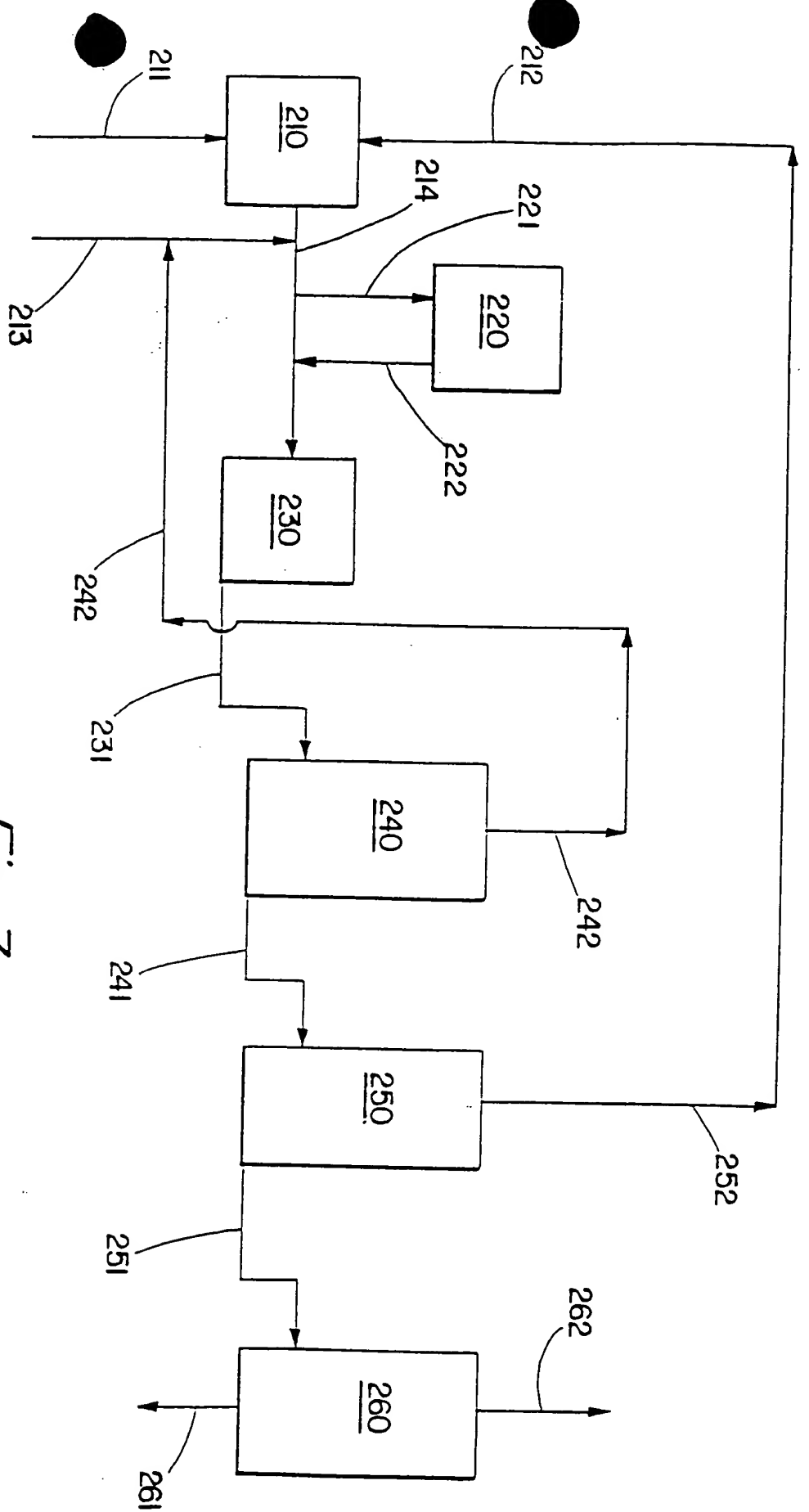


Fig. 3

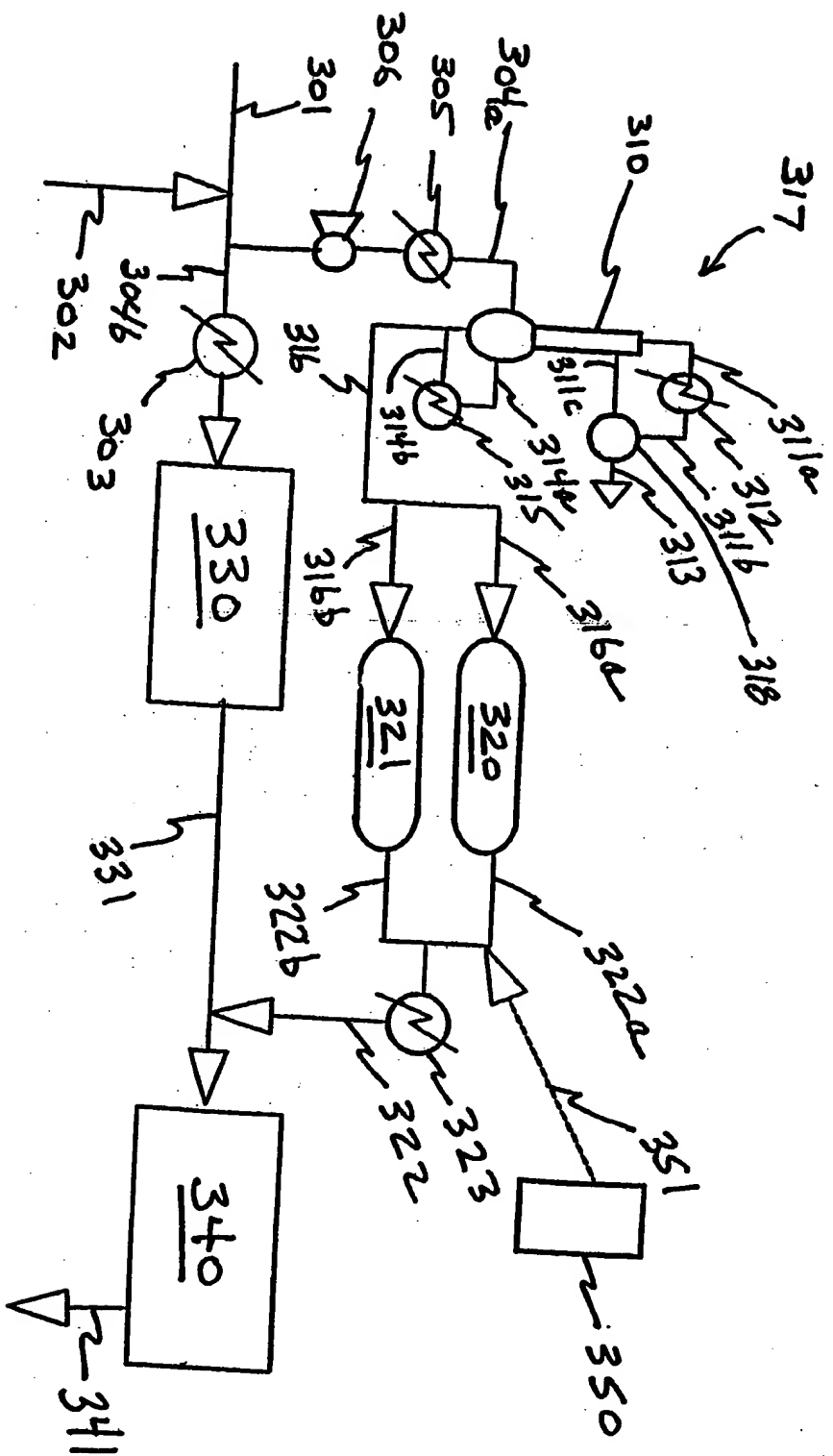
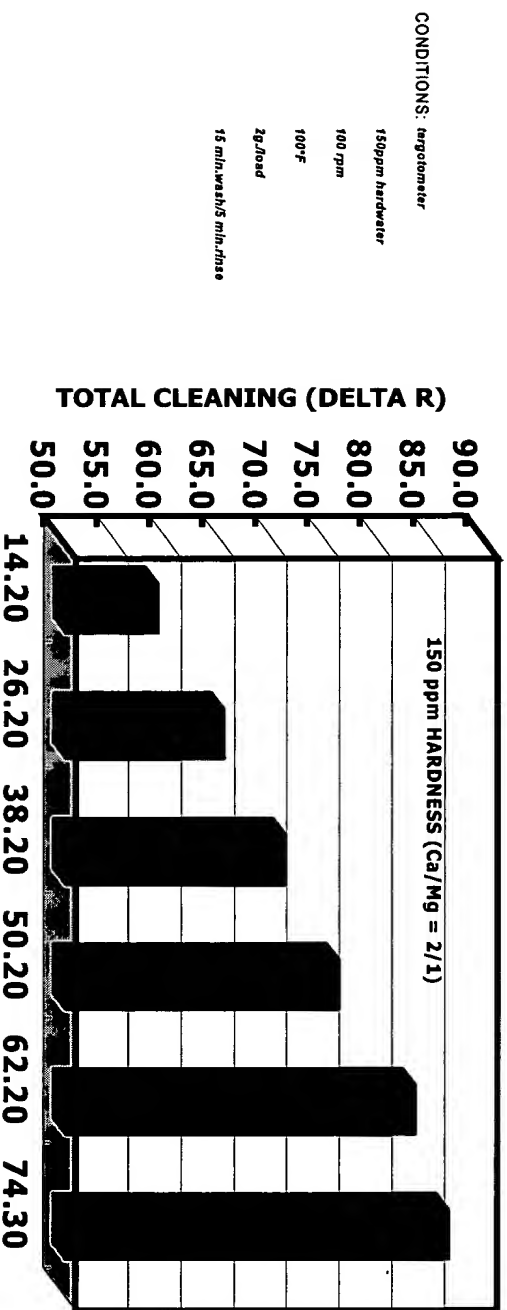


FIG. 4

FIGURE 5. 2-PHENYL ISOMER DISTRIBUTION DETERGENCY STUDY

	REDEPOSITION		DIRTY MOTOR OIL		DUST SEBUM		GRASS		BLOOD, MILK, SOIL		EMPA 101&104		CLAY	
2-PHENYL	cotton	poly/cotton	cotton	poly/cotton	cotton	poly/cotton	cotton	poly/cotton	cotton	poly/cotton	cotton	poly/cotton	cotton	poly/cotton
14.20	-3.36	-12.77	21.36	-2.62	3.64	-6.16	-1.17	-1.77	2.67	6.96	7.07	11.67	9.27	6.70
26.20	-3.61	-12.86	23.07	-0.61	4.05	-6.08	-0.63	-1.77	2.21	6.06	7.17	12.66	9.76	9.06
38.20	-4.22	-10.61	22.66	1.90	4.36	-6.79	-1.10	-1.66	2.63	6.96	8.76	13.40	9.26	9.30
50.20	-3.40	-9.23	20.91	1.67	4.64	-4.48	-0.88	-1.66	3.27	6.70	9.11	16.66	10.08	9.74
62.20	-3.60	-9.61	22.69	3.01	4.27	-3.96	-1.21	-1.69	2.72	7.46	10.66	16.10	9.17	10.60
74.30	-3.62	-7.78	22.48	3.33	4.66	-3.30	-1.66	-1.70	3.62	8.46	11.11	16.00	10.60	10.61



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FIGURE 6. Conventional LAS (A225) HARD WATER TURBIDITY

SOLUTION	LAS STOCK	HARD WATER	Water Hardness ppm	LAS WT%	PH	TURBIDITY
1	100.00	0.00	0.00	1.12	10.15	0.00
2	99.94	1.02	304.44	1.11	10.32	0.20
3	100.33	2.00	588.95	1.10	10.20	1.00
4	100.76	2.46	718.17	1.10	10.18	6.00
5	100.05	2.95	863.05	1.09	10.27	88.50
6	99.78	4.04	1172.61	1.08	10.22	834.00

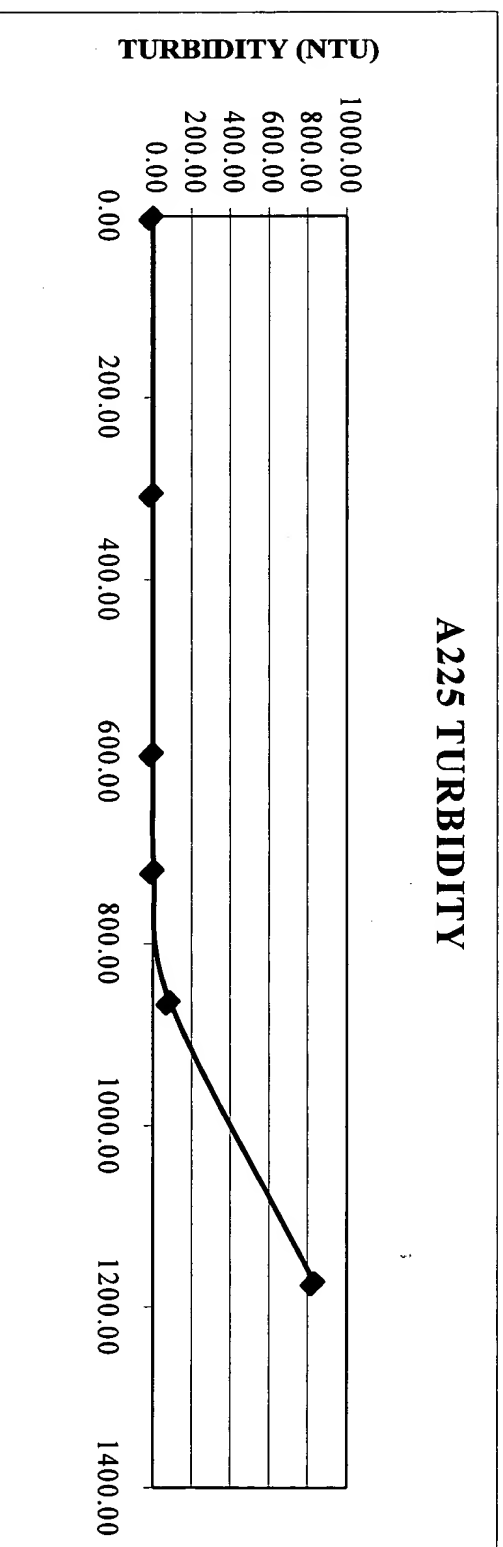


FIGURE 7. Super High 2-phenyl LAS HARD WATER TURBIDITY

SOLUTION	LAS STOCK	HARD WATER	Water Hardness ppm	LAS WT%	PH	TURBIDITY
1	101.70	0.00	0.00	1.13	9.71	0.60
2	101.36	1.05	308.96	1.12	9.92	0.30
3	101.00	3.01	872.06	1.10	9.55	1.30
4	101.79	4.01	1142.12	1.09	9.97	4.70
5	100.30	5.17	1477.12	1.07	9.90	30.00
6	102.89	7.04	1929.79	1.06	9.84	305.00
7	93.42	8.00	2376.95	1.04	9.64	1098.00
6	100.83	9.15	2507.04	1.04	9.79	850.00

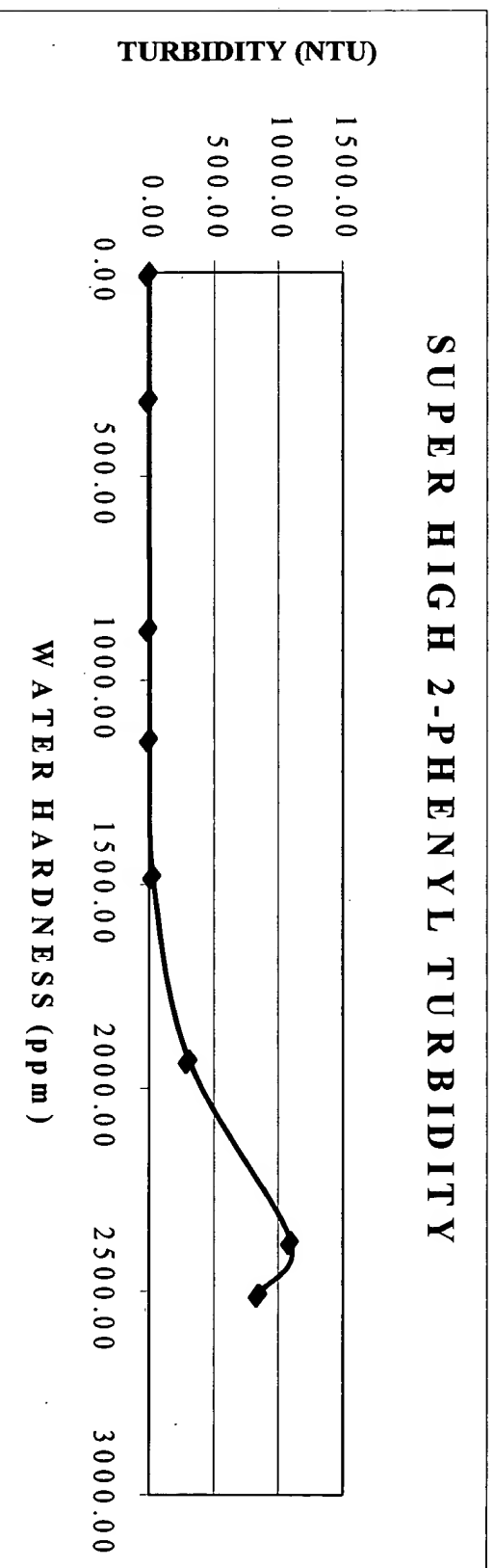


FIGURE 8. Hard water tolerance comparison of Super High 2-phenyl sodium-LAS versus conventional sodium-LAS at 25°C.

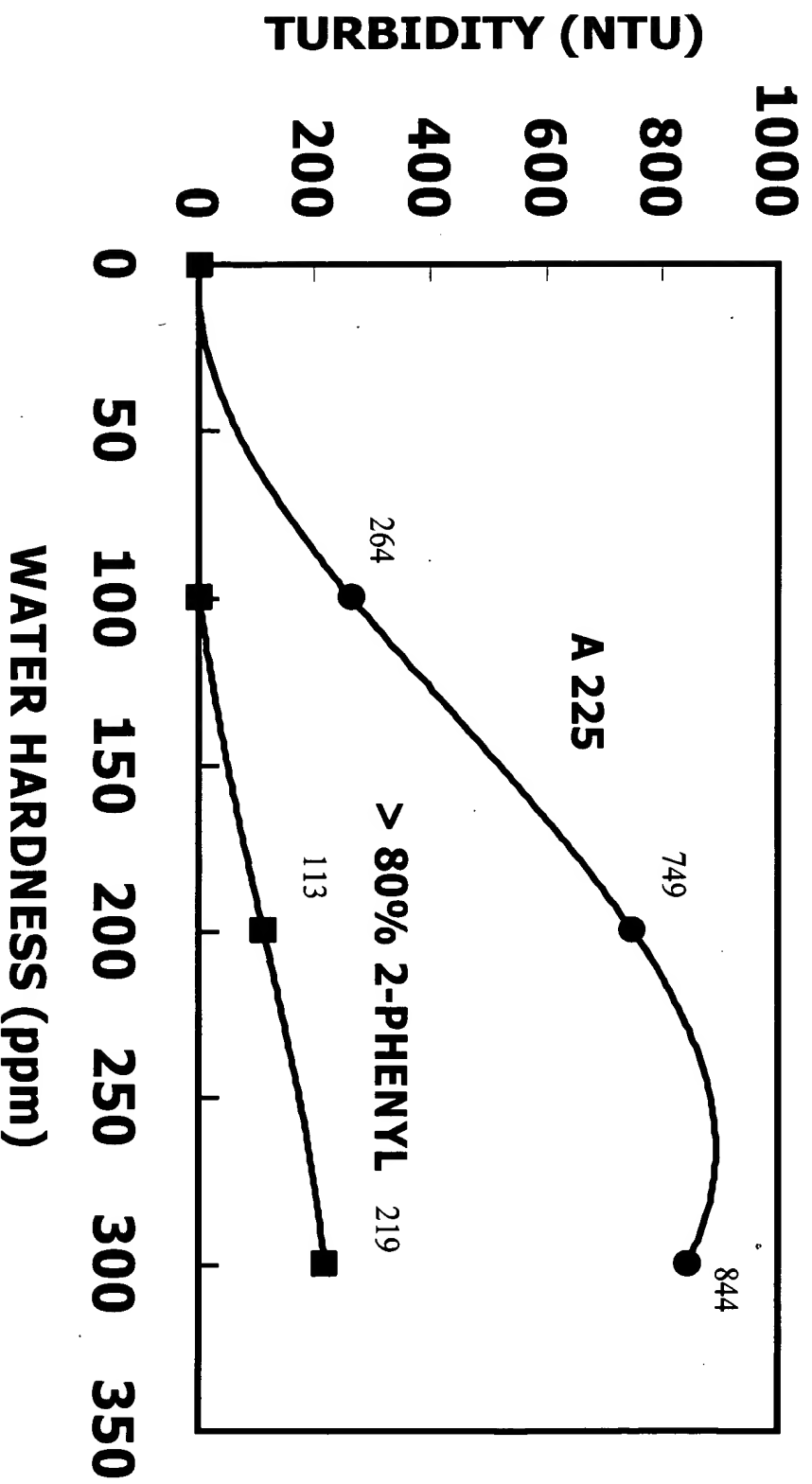
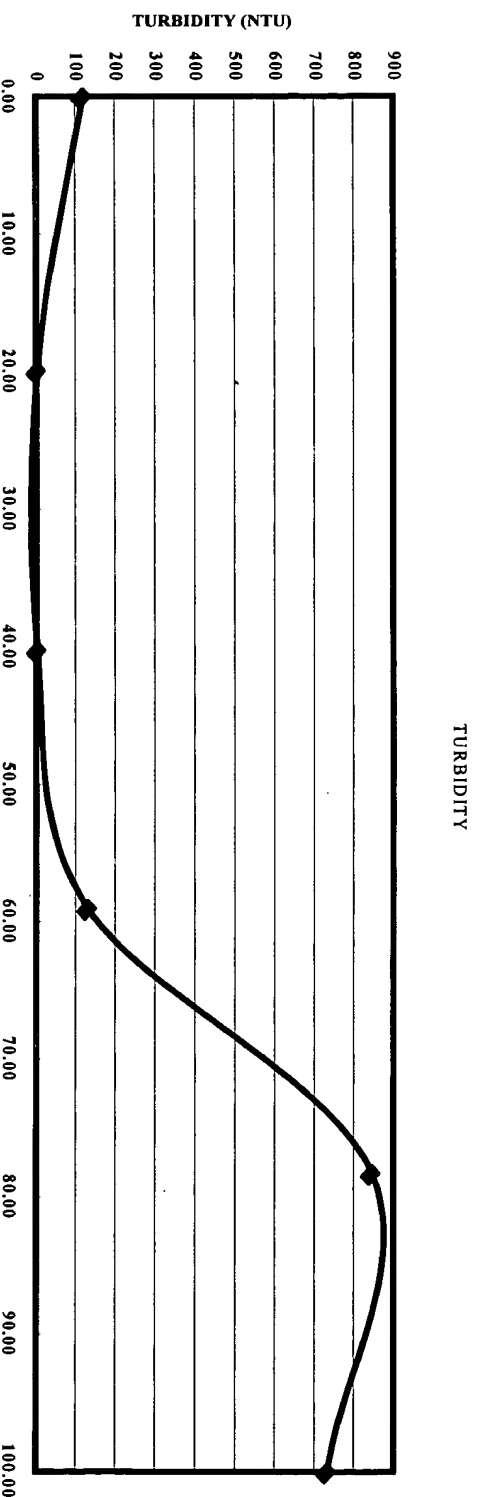


FIGURE 9. Turbidity study comparing of Super High 2-phenyl sodium-LAS ("SLAS") versus Super High 2-toluy1 sodium-LAS ("SLATS") at 25°C.

SAMPLE	GMS SLATS (8053-8)	GMS SLAS (7961-97-2)	GMS HARD WATER	GMS DI WATER	HARD WATER	% SLATS	TURBIDITY
1	8.11	0	7.98	784.22	300.47	100.00	733
2	6.54	1.82	8.04	784.27	302.59	78.23	845
3	4.81	3.34	8.02	784.27	301.92	59.02	132
4	3.36	4.99	8.08	784.15	304.13	40.24	3.9
5	1.6	6.43	8.12	784.05	305.78	19.93	3.5
6	0	8	8.02	791.34	299.34	0.00	120

SLAS + SLATS = 100 @ 300 PPM



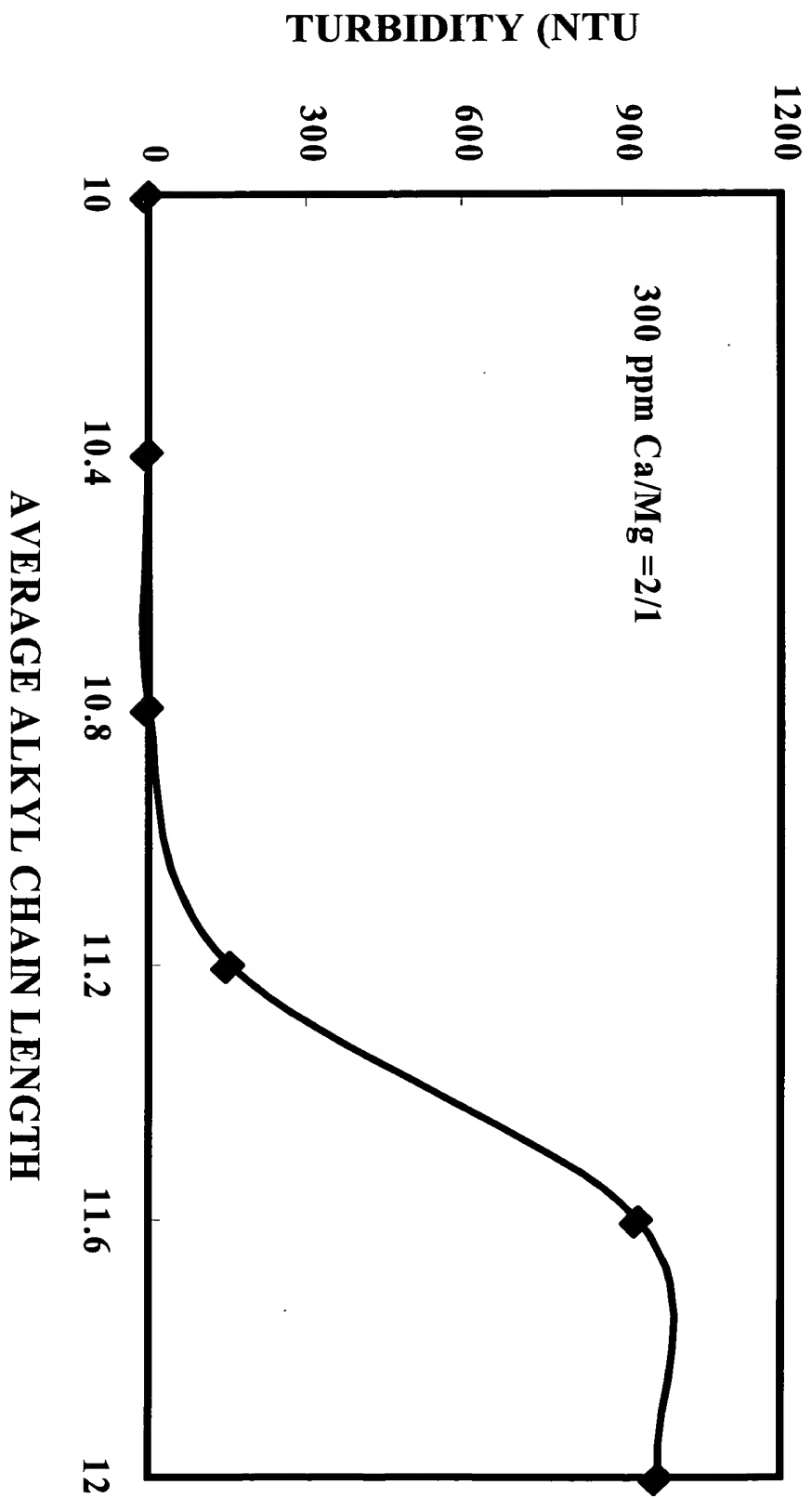


FIGURE 10. SLATS ALKYL CHAIN TURBIDITY AT 300 ppm HARD WATERS